

REPORT TO PASIO

CLIENT SAMPLE

IDENTIFICATION

CLIENT:

PHONE

11. 12. 13.

15.

RELINQUISHED BY:

RELINQUISHED BY

ADDITIONAL REMARKS:

PRINT NAME:

PRINT NAME:

COC REV 3/99

PROJECT NAME:

SAMPLED BY:



11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

(425) 420-9200 (509) 924-9200

темр: 3

FAX 420-9210 924-9290

(503) 906-9200

FAX 906-9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

Work Order #: FAX 382-7588 CHAIN OF CUSTODY REPORT INVOICE TO: TURNAROUND REQUEST in Business Days Organic & Inorganic Analyses BRISTOL ADDRESS: ANNE KRANAWETTER 10 STD. Petroleum Hydrocarbon Analyses P.O. NUMBER: 5 3 REQUESTED ANALYSES STD. PROJECT NUMBER: MCHTKA Please Specify OTHER \*Turnaround Requests less than standard may incur Rush Charges. SAMPLING MATRIX #OF NCA WO DATE/TIME (W, S, O) CONT. COMMENTS ID 2 2 5 2 DATE: RECEIVED BY: 11311 DATE: TIME: Matt Carnahan PRINT NAME: FIRM: TIME: DATE: RECEIVED BY: DATE: FIRM: TIME: PRINT NAME: FIRM: TIME:





11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

(509) 924-9200 (503) 906-9200

(425) 420-9200

FAX 420-9210 924-9290 FAX 906-9210

) 906-9200 FAX 906-9210 ) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

P | (541) 383-9310

Work Order #: | (541) 383-9310

													***	<u> </u>	Oru	ΕΙ π.	N 10-	405	t	
CLIENT: BRISTO	)(				I	INVO	ICE TO	Э:								TURI			EST in Business I	Days*
REPORT TO:	KRANA	WETT	ER		E	3R	15	TOL	allow companied.							l			anic Analyses	
REPORT TO: ANNE ADDRESS:		1														10	7 5	4	3 2 1	< 1
1	MOH, &	X														STD.			arbon Analyses	
PHONE: PROJECT NAME:	4000	FAX:	10.	D9-	15. F	P.O. N	UMBI	ER: -	10	90	-						5 4	3	2   1   < 1	ī
	LUTTOA						RE	QUES	ΓED AN	ALYSES	5					ST	D.	— Ple	ease Specify	_
PROJECT NUMBER:	90																ОТН		ase speerly	
SAMPLED BY: KLP/ AR				5												*Turnar	ound Requests	less than star	ndard may incur Rush Cl	harges.
CLIENT SAMPLE	SAMPLIN	٧G	83	75												MATRIX	# OF			
IDENTIFICATION	DATE/TIN	ME	2	Med																NCA WO
			Semilario					-	-	-			-			(W, S, O)	CONT.	C(	OMMENTS	ID
1. 01/1			and the second of the second o	no and the color for agranual respective		MS/STOPMANISHM	Pilling and the second	The second second second	ngum union non di tanggi kapilining		<sub>edge</sub> hillisekkin examonyon	Annual Statute State of Constitution							Principal programme and principal recognition of particular designation of the control of the co	And a constitution of the
2. OIAMLAOISL	7/29/01	1510	X	X							1					5	2			
3. OIAMLAGGSL	7/29/01	1520	X	X												5	2			
3. 01AMLA06SL 4. 01AMLA15SL	7/29/01	1530	X	X												5	2			
5. OLAMLAIOSL	7/29/01	1541	X	X												5	2			
6. CIAMLA 415L	7/29/01	1547	X	X												5	2			
7. 01AM LA24SL	7/29/01	1605	X	X							,					5	2			
8.				,												1400				
9.		-																		
10.																				
11.																				
12.																				
13.	13																			
14.																				
15.																				
RELINQUISHED BY: We 11th					D/	ATE:	7/20	2/01	RECEI	VED BY:	7		21 0	0.					DATE	7 halal
PRINT NAME:	tersen	FIRM: Q	RIS	517		IME:	173	0		NAME:	U	CN	uin	Bart	le	FIRM:	NCA	1	DATE: TIME:	17-20
RELINQUISHED BY:			1		DA	ATE:				VED BY:			)	12000	-	X.444141	1	1	DATE:	1170
PRINT NAME:		FIRM:			TI	IME:				NAME:			,			FIRM:			TIME:	
ADDITIONAL REMARKS:	Analysis 1	actudes	1.	i - C	dnun	Chr	om Kom	PI	) Me	read	5.	10.63	M. E	Silve	2 (			Т		
COC REV 3/99 415L	Was Sarpl	led be	neoth	the the	e li	net		)   6	7 '	4)	16	IK die	**) ";	J	- 1				EMP: PAGE	OF



11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 (425) 420-9200 F^Y 420-9210 (509) 924-9200 24-9290

(503) 906-9200 FAX 906-9210

### **CHAIN OF CUSTODY REPORT**

Work Order #: M 1 0 706 1

CLIENT: BRISTO(	**************************************					INVO	ICE TO	):								TURN	IAROUNI	D REQUE	EST in Busines	s Days*
REPORT TO: ANE	KRAN	AWE	THE	K		BR	157	OL											nic Analyses	
ADDRESS: AMCH!	TKA, H	+K														10 7 STD.			3 2 carbon Analyses	1 <1
PHONE: 907 770			70.	09	75	P.O. N	UMBE	R: 7	100	10							4		2 1	< 1
PROJECT NAME: AMC	HITICA							1000	ED ANA		3					ST	D.	Ple	ase Specify	
PROJECT NUMBER: Z	90																ОТН			
SAMPLED BY: KLP/API	4		4	5												*Turnare	ound Requests	less than stan	dard may incur Rus	i Charges.
CLIENT SAMPLE	SAMPL	ING	20	Metal											A	MATRIX	# OF			NCA WO
IDENTIFICATION	DATE/T	IME	2	Me												(W, S, O)	CONT.	CC	OMMENTS	ID
1. OlAMLAOSSL	7/31/01	1808	X	×												5	7			
2. OLAMLAHSL	7/3/101	1818	X	X											,	5	2			
3. OIAMLAIZSL	7/31/01	1850	X	X												5	2,			
4. OLAMLA 175L	7/31/01	1830	X	X												5	2			
5. OIAMLAZ8SL	7/31/01	1838	X	K		,										S	2			
6.																				
7.																				
8.								,												
9.		*																		
10.											, ,									
11.																				
12.																			·.	
13.										,									* .	
14.		<u> </u>					Other Law Company		. 4											
15.																				
RELINQUISHED BY: 1/2 //2 PE	tersen	FIRM:	Ris	510		DATE: TIME:	7/31/192	6	RECEI PRINT	VED BY NAME:	MU	E C	100g	N R	. EA	RO GIRM!				TE: 7-31-0/ ME: <b>7-</b> 2>b
RELINQUISHED BY:						DATE:				VED BY									DA	P
PRINT NAME:		FIRM:				TIME:			PRINT	NAME:						FIRM:	90.0	1	TI	ME:
ADDITIONAL REMARKS:			4.						- Commercial Commercia									Т	ГЕМР:	
COC REV 3/99			E / Se Se Senting							- 4									PA	GE OF



COC REV 3/99

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

(425) 420-9200 (509) 924-9200 「· ¥ 420-9210

924-9290

(503) 906-9200 FAX 906-9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 (541) 383-9310 FAX 382-7588 110101 PHO146

www.ncaraus.com		CHA	IN (	OF (	CUS	STO	DY	RE	LPO	RT			Wo	rk (	)rd	er#: ˌ	1410	7062 MI	28001
CLIENT: BRISTOL	monopolitich					INVO										TURN	IAROUNI	D REQUEST in Business	
REPORT TO: ANKE K	RANA	WEITE	ER	-		BR	45	STO								10 7		nic & Inorganic Analyses	
REPORT TO: AME K ADDRESS: AMCH	TKA.	AK														STD.		um Hydrocarbon Analyses	1 < 1
PHONE: 907. 700		FAX:		-	15	P.O. N	UMBI	ER: 7	109	70					-	575.			< 1
PROJECT NAME:	HITKA			1					ED ANA		3		1			ST		Please Specify	
PROJECT NUMBER:	90						-			1							ОТН		<del></del>
SAMPLED BY: ARK	KLP		5	-5			7				. ,						<u> </u>	less than standard may incur Rush	
CLIENT SAMPLE  IDENTIFICATION	SAMPLI DATE/TI		pce	Med												MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO
O I AM L A 235L		1400	X	X												5	2		
OLAMLA255L	8/1/01	350	X	X												5	2	~25-es-e	11
OIAMLA 33SL	8/1/01	1320	X	X												5	2		
OLAM LA 34SL	8/1/01	1330	X	*												S	7		-
OIAMLA 135L	8/1/01	1412	X	X												5	2		
OLAMA KLP																			
OJAMLAOBSL	8/1/01	1426	X	X					7.							5	2		
OIAMLA14SL	8/1/01	1405	X	K												S	2		
. CIAMLAZOSL	8/1/01	1340	X	X												5	2		
0.																			
1.																			
2.	<u> </u>												,		ν.				
3.																			
4.						and for					-								
5.						-	E.							1					1/.
	to		0.0	-7-1	7 7	DATE:				VED BY	Cya	wy 1	Bras	lle	Λ		NCA	DA	
PRINT NAME:   -   le RELINQUISHED BY:	Peterser	FIRM:	KIC	100	and descriptions of the	TIME: DATE:	19	23		NAME: VED BY		CA	ado !	SVa	al e	FIRM:	NOH	TIN DA'	1.7.
PRINT NAME:		FIRM:				TIME:			1 3	NAME:			-			FIRM:		TIN	
ADDITIONAL REMARKS:											e 2'			-				TEMP:	1
COC REV 3/99												4					122	9.9% PA	GE OF



11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

F 420-9210 (425) 420-9200 (509) 924-9200 924-9290

(503) 906-9200 FAX 906-9210 FAX 382-7588

#### **CHAIN OF CUSTODY REPORT**

Work Order #:

(541) 383-9310

CLIENT: BRISTOL	parties .						ICE TO									TURN	IAROUNI	O REQUEST in Bu	siness Da	ıys*
REPORT TO: ANNE 1	CRANAWE	THE	R			BR	15	101	-									ic & Inorganic Analys		. — . 1
ADDRESS: AMOUNT																10 7		4 3 2		<1
PHONE: 907.770.		FAX: 17	0.0	201	75	P.O. N	UMRE	R. 2	109						_	STD.		3 2 1		
PROJECT NAME: AM	HITKA					1.0.11		- Land	ED ANA	LYSES						ST	D	Please Speci		
PROJECT NUMBER: 2						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											ОТН	ER Trease Speed	y	
SAMPLED BY: APK/K			5	( )					1.							*Turnara	und Requests	less than standard may in	ur Rush Cha	rges.
CLIENT SAMPLE	SAMPLING		3	Meta												MATRIX	# OF			NCA WO
IDENTIFICATION	DATE/TIME		2	4												(W, S, O)	CONT.	COMMENT	rs	ID
1. O IAMLAZOSL	8/2/01 1	810	X	X												5	2			
2. OLAMLA BOSL	8/2/01 1	815	X	X												S	2			11 <sup>4</sup> N <sub>1111</sub>
3. OLAMLA42SL	8/2/01 19	818	X	X												S	2			
4. OIAMLAZGSL	8/2/01 18	625	X	X												5	2			
5. 01AMLA 365L	8/2/01 10	835	X	X												5	2			
6 CHAMIA 45 SL	8/2/01 10	845	X	*		Alexandria de la companya del companya de la companya del companya de la companya		and the second s				-		THE Chausule temperature and		5	2	for five	5 el "	proceedings of the second
7. OLAMLABISL	8/2/01 1	854	X	×												5	2			
8. OTAMLA35SL	8/2/01 1	845	X	X												5	2			
9.			,			,										2 1273				
10.													,							
11.																				
12.																				
13.				-									,							
14.			, , , , , ,																	
15.														11						1
	Etm-	firm: B	RIS	STC		DATE: TIME:	8/2,	101		VED BY: NAME:	Cia	2	su y	Ry	al	FIRM:				8/2/01
RELINQUISHED BY:	<i>x</i>					DATE:			RECEI	VED BY:				1					DATE:	
PRINT NAME:		FIRM:				TIME:			PRINT	NAME:						FIRM:			TIME:	1
ADDITIONAL REMARKS: COC REV 3/99																		TEMP: 10.5	PAGE	OF



Seattle 117 rth Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.904.9200 fax 503.906.9210 8end 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

10 November, 2001

Steve Johnson Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are amended results of analyses for samples received by the laboratory on 08/06/01 11:00. If you have any questions concerning this report, please feel free to contact me. These results supercede all previous results reported by the laboratory.

Sincerely,

Jerry Orlando

Project Manager/QA

for Olanh

Work Orders included in this report:

P1H0140



Seattle 1177 th Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425. .00 fax 425.420.9210

Spokane East 1+115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090 Project Manager: Steve Johnson

Amended Report Issued: 11/07/01 13:03

#### ANALYTICAL REPORT FOR SAMPLES - Amended

DIAMLA0ISL         PH0140-01         Soil         07/29/01 15:10         08/06/01 11:00           DIAMLA06SL         PH0140-02         Soil         07/29/01 15:20         08/06/01 11:00           DIAMLAISSL         PH0140-03         Soil         07/29/01 15:30         08/06/01 11:00           DIAMLAIOSL         PH0140-04         Soil         07/29/01 15:41         08/06/01 11:00           DIAMLA1SL         PH0140-05         Soil         07/29/01 15:47         08/06/01 11:00           DIAMLA01SL         PH0140-06         Soil         07/29/01 16:05         08/06/01 11:00           DIAMLA02SL         PH0140-07         Soil         07/31/01 13:25         08/06/01 11:00           DIAMLA07SL         PH0140-08         Soil         07/31/01 13:35         08/06/01 11:00           DIAMLA16SL         PH0140-09         Soil         07/31/01 13:45         08/06/01 11:00           DIAMLA18SL         PH0140-10         Soil         07/31/01 14:00         08/06/01 11:00           DIAMLA19SL         PH0140-11         Soil         07/31/01 18:0         08/06/01 11:00           DIAMLA19SL         PH0140-12         Soil         07/31/01 18:0         08/06/01 11:00           DIAMLA1SSL         PH0140-15         Soil         07/31/01 18:0 <t< th=""><th>Sample ID</th><th>Laboratory ID</th><th>Matrix</th><th>Date Sampled</th><th>Date Received</th></t<>	Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DIAMLA16SL	01AMLA01SL	P1H0140-01	Soil	07/29/01 15:10	
DIAMLA10SL	01AMLA06SL	P1H0140-02	Soil	07/29/01 15:20	08/06/01 11:00
DIAMLA41SL	01AMLA15SL	P1H0140-03	Soil	07/29/01 15:30	08/06/01 11:00
DIAMLA24SL	01AMLA10SL	P1H0140-04	Soil	07/29/01 15:41	08/06/01 11:00
DIAMLA02SL	01AMLA41SL	P1H0140-05	Soil	07/29/01 15:47	08/06/01 11:00
DIAMLA07SL	01AMLA24SL	P1H0140-06	Soil	07/29/01 16:05	08/06/01 11:00
DIAMILA16SL   PIH0140-09   Soil   07/31/01 13:35   08/06/01 11:00	01AMLA02SL	P1H0140-07	Soil	07/31/01 13:25	08/06/01 11:00
DIAMLA18SL PIH0140-10 Soil 07/31/01 14:20 08/06/01 11:00 01AMLA19SL PIH0140-11 Soil 07/31/01 14:20 08/06/01 11:00 01AMLA08SL PIH0140-12 Soil 07/31/01 18:08 08/06/01 11:00 01AMLA11SL PIH0140-13 Soil 07/31/01 18:18 08/06/01 11:00 01AMLA11SL PIH0140-14 Soil 07/31/01 18:18 08/06/01 11:00 01AMLA12SL PIH0140-15 Soil 07/31/01 18:30 08/06/01 11:00 01AMLA12SL PIH0140-15 Soil 07/31/01 18:30 08/06/01 11:00 01AMLA2SSL PIH0140-16 Soil 07/31/01 18:38 08/06/01 11:00 01AMLA2SSL PIH0140-17 Soil 08/01/01 14:00 08/06/01 11:00 01AMLA2SSL PIH0140-17 Soil 08/01/01 13:50 08/06/01 11:00 01AMLA2SSL PIH0140-18 Soil 08/01/01 13:50 08/06/01 11:00 01AMLA3SSL PIH0140-19 Soil 08/01/01 13:50 08/06/01 11:00 01AMLA3SSL PIH0140-19 Soil 08/01/01 13:20 08/06/01 11:00 01AMLA3SSL PIH0140-20 Soil 08/01/01 13:30 08/06/01 11:00 01AMLA3SSL PIH0140-21 Soil 08/01/01 13:40 08/06/01 11:00 01AMLA3SSL PIH0140-22 Soil 08/01/01 13:40 08/06/01 11:00 01AMLA3SSL PIH0140-23 Soil 08/01/01 13:40 08/06/01 11:00 01AMLA3OSL PIH0140-24 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA2OSL PIH0140-25 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA2OSL PIH0140-26 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA2OSL PIH0140-26 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA2OSL PIH0140-27 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA2OSL PIH0140-27 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA2OSL PIH0140-27 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA2OSL PIH0140-27 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA2OSL PIH0140-27 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA2OSL PIH0140-28 Soil 08/02/01 18:35 08/06/01 11:00 01AMLA2OSL PIH0140-28 Soil 08/02/01 18:35 08/06/01 11:00 01AMLA3OSL PIH0140-28 Soil 08/02/01 18:35 08/06/01 11:00 01AMLA3OSL PIH0140-28 Soil 08/02/01 18:35 08/06/01	01AMLA07SL	P1H0140-08	Soil	07/31/01 13:35	08/06/01 11:00
P1H0140-11   Soil   O7/31/01 14:00   O8/06/01 11:00	01AMLA16SL	P1H0140-09	Soil	07/31/01 13:45	08/06/01 11:00
DIAMLA08SL PIH0140-12 Soil 07/31/01 18:08 08/06/01 11:00 01AMLA1SL PIH0140-13 Soil 07/31/01 18:18 08/06/01 11:00 01AMLA1SL PIH0140-14 Soil 07/31/01 18:50 08/06/01 11:00 01AMLA1SL PIH0140-15 Soil 07/31/01 18:30 08/06/01 11:00 01AMLA1SL PIH0140-15 Soil 07/31/01 18:30 08/06/01 11:00 01AMLA2SSL PIH0140-16 Soil 07/31/01 18:38 08/06/01 11:00 01AMLA2SSL PIH0140-17 Soil 08/01/01 13:30 08/06/01 11:00 01AMLA2SSL PIH0140-18 Soil 08/01/01 13:50 08/06/01 11:00 01AMLA3SSL PIH0140-19 Soil 08/01/01 13:50 08/06/01 11:00 01AMLA33SL PIH0140-19 Soil 08/01/01 13:20 08/06/01 11:00 01AMLA34SL PIH0140-20 Soil 08/01/01 13:30 08/06/01 11:00 01AMLA34SL PIH0140-21 Soil 08/01/01 13:30 08/06/01 11:00 01AMLA3SSL PIH0140-22 Soil 08/01/01 13:40 08/06/01 11:00 01AMLA1SSL PIH0140-22 Soil 08/01/01 13:40 08/06/01 11:00 01AMLA1SSL PIH0140-23 Soil 08/01/01 13:40 08/06/01 11:00 01AMLA20SL PIH0140-24 Soil 08/02/01 18:10 08/06/01 11:00 01AMLA20SL PIH0140-24 Soil 08/02/01 18:10 08/06/01 11:00 01AMLA20SL PIH0140-25 Soil 08/02/01 18:10 08/06/01 11:00 01AMLA20SL PIH0140-25 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA20SL PIH0140-25 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA30SL PIH0140-25 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA30SL PIH0140-25 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA30SL PIH0140-26 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA30SL PIH0140-27 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA30SL PIH0140-27 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA30SL PIH0140-28 Soil 08/02/01 18:35 08/06/01 11:0	01AMLA18SL	P1H0140-10	Soil	07/31/01 14:20	08/06/01 11:00
DIAMLA11SL         PIH0140-13         Soil         07/31/01 18:18         08/06/01 11:00           DIAMLA12SL         PIH0140-14         Soil         07/31/01 18:50         08/06/01 11:00           DIAMLA17SL         PIH0140-15         Soil         07/31/01 18:30         08/06/01 11:00           DIAMLA28SL         PIH0140-16         Soil         07/31/01 18:38         08/06/01 11:00           DIAMLA23SL         PIH0140-17         Soil         08/01/01 14:00         08/06/01 11:00           DIAMLA3SSL         PIH0140-18         Soil         08/01/01 13:50         08/06/01 11:00           DIAMLA34SL         PIH0140-19         Soil         08/01/01 13:20         08/06/01 11:00           DIAMLA34SL         PIH0140-20         Soil         08/01/01 13:30         08/06/01 11:00           DIAMLA13SL         PIH0140-21         Soil         08/01/01 14:12         08/06/01 11:00           DIAMLA14SL         PIH0140-22         Soil         08/01/01 14:05         08/06/01 11:00           DIAMLA20SL         PIH0140-23         Soil         08/01/01 13:40         08/06/01 11:00           DIAMLA29SL         PIH0140-24         Soil         08/02/01 18:10         08/06/01 11:00           DIAMLA30SL         PIH0140-25         Soil         08/02/01 18:1	01AMLA19SL	P1H0140-11	Soil	07/31/01 14:00	08/06/01 11:00
01AMLA12SL       P1H0140-14       Soil       07/31/01 18:50       08/06/01 11:00         01AMLA17SL       P1H0140-15       Soil       07/31/01 18:30       08/06/01 11:00         01AMLA28SL       P1H0140-16       Soil       07/31/01 18:38       08/06/01 11:00         01AMLA23SL       P1H0140-17       Soil       08/01/01 14:00       08/06/01 11:00         01AMLA25SL       P1H0140-18       Soil       08/01/01 13:50       08/06/01 11:00         01AMLA33SL       P1H0140-19       Soil       08/01/01 13:20       08/06/01 11:00         01AMLA34SL       P1H0140-20       Soil       08/01/01 13:30       08/06/01 11:00         01AMLA13SL       P1H0140-21       Soil       08/01/01 14:12       08/06/01 11:00         01AMLA14SL       P1H0140-22       Soil       08/01/01 14:05       08/06/01 11:00         01AMLA20SL       P1H0140-23       Soil       08/01/01 13:40       08/06/01 11:00         01AMLA29SL       P1H0140-24       Soil       08/02/01 18:10       08/06/01 11:00         01AMLA29SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA30SL       P1H0140-26       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA36SL       P1H0140-27	01AMLA08SL	P1H0140-12	Soil	07/31/01 18:08	08/06/01 11:00
01AMLA17SL P1H0140-15 Soil 07/31/01 18:30 08/06/01 11:00 01AMLA28SL P1H0140-16 Soil 07/31/01 18:38 08/06/01 11:00 01AMLA23SL P1H0140-17 Soil 08/01/01 13:50 08/06/01 11:00 01AMLA25SL P1H0140-18 Soil 08/01/01 13:50 08/06/01 11:00 01AMLA33SL P1H0140-19 Soil 08/01/01 13:20 08/06/01 11:00 01AMLA33SL P1H0140-20 Soil 08/01/01 13:30 08/06/01 11:00 01AMLA34SL P1H0140-21 Soil 08/01/01 13:30 08/06/01 11:00 01AMLA13SL P1H0140-21 Soil 08/01/01 14:12 08/06/01 11:00 01AMLA13SL P1H0140-22 Soil 08/01/01 14:12 08/06/01 11:00 01AMLA14SL P1H0140-22 Soil 08/01/01 14:05 08/06/01 11:00 01AMLA20SL P1H0140-23 Soil 08/01/01 13:40 08/06/01 11:00 01AMLA20SL P1H0140-24 Soil 08/02/01 18:10 08/06/01 11:00 01AMLA20SL P1H0140-25 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA20SL P1H0140-25 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA20SL P1H0140-26 Soil 08/02/01 18:15 08/06/01 11:00 01AMLA20SL P1H0140-26 Soil 08/02/01 18:18 08/06/01 11:00 01AMLA20SL P1H0140-26 Soil 08/02/01 18:18 08/06/01 11:00 01AMLA20SL P1H0140-26 Soil 08/02/01 18:18 08/06/01 11:00 01AMLA30SL P1H0140-27 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA30SL P1H0140-28 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA30SL P1H0140-28 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA30SL P1H0140-28 Soil 08/02/01 18:35 08/06/01 11:00 01AMLA30SL	01AMLA11SL	P1H0140-13	Soil	07/31/01 18:18	08/06/01 11:00
01AMLA28SL       P1H0140-16       Soil       07/31/01 18:38       08/06/01 11:00         01AMLA23SL       P1H0140-17       Soil       08/01/01 14:00       08/06/01 11:00         01AMLA25SL       P1H0140-18       Soil       08/01/01 13:50       08/06/01 11:00         01AMLA33SL       P1H0140-19       Soil       08/01/01 13:20       08/06/01 11:00         01AMLA34SL       P1H0140-20       Soil       08/01/01 13:30       08/06/01 11:00         01AMLA13SL       P1H0140-21       Soil       08/01/01 14:12       08/06/01 11:00         01AMLA14SL       P1H0140-22       Soil       08/01/01 14:05       08/06/01 11:00         01AMLA20SL       P1H0140-23       Soil       08/01/01 13:40       08/06/01 11:00         01AMLA29SL       P1H0140-24       Soil       08/02/01 18:10       08/06/01 11:00         01AMLA30SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA42SL       P1H0140-26       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA36SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         01AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA12SL	P1H0140-14	Soil	07/31/01 18:50	08/06/01 11:00
01AMLA23SL       P1H0140-17       Soil       08/01/01 14:00       08/06/01 11:00         01AMLA25SL       P1H0140-18       Soil       08/01/01 13:50       08/06/01 11:00         01AMLA33SL       P1H0140-19       Soil       08/01/01 13:20       08/06/01 11:00         01AMLA34SL       P1H0140-20       Soil       08/01/01 13:30       08/06/01 11:00         01AMLA13SL       P1H0140-21       Soil       08/01/01 14:12       08/06/01 11:00         01AMLA14SL       P1H0140-22       Soil       08/01/01 14:05       08/06/01 11:00         01AMLA20SL       P1H0140-23       Soil       08/01/01 13:40       08/06/01 11:00         01AMLA29SL       P1H0140-24       Soil       08/02/01 18:10       08/06/01 11:00         01AMLA30SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA42SL       P1H0140-26       Soil       08/02/01 18:18       08/06/01 11:00         01AMLA26SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         01AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA17SL	P1H0140-15	Soil	07/31/01 18:30	08/06/01 11:00
01AMLA25SL       P1H0140-18       Soil       08/01/01 13:50       08/06/01 11:00         01AMLA33SL       P1H0140-19       Soil       08/01/01 13:20       08/06/01 11:00         01AMLA34SL       P1H0140-20       Soil       08/01/01 13:30       08/06/01 11:00         01AMLA13SL       P1H0140-21       Soil       08/01/01 14:12       08/06/01 11:00         01AMLA14SL       P1H0140-22       Soil       08/01/01 14:05       08/06/01 11:00         01AMLA20SL       P1H0140-23       Soil       08/01/01 13:40       08/06/01 11:00         01AMLA29SL       P1H0140-24       Soil       08/02/01 18:10       08/06/01 11:00         01AMLA30SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA42SL       P1H0140-26       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA26SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         01AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA28SL	P1H0140-16	Soil	07/31/01 18:38	08/06/01 11:00
01AMLA33SL       P1H0140-19       Soil       08/01/01 13:20       08/06/01 11:00         01AMLA34SL       P1H0140-20       Soil       08/01/01 13:30       08/06/01 11:00         01AMLA13SL       P1H0140-21       Soil       08/01/01 14:12       08/06/01 11:00         01AMLA14SL       P1H0140-22       Soil       08/01/01 13:40       08/06/01 11:00         01AMLA20SL       P1H0140-23       Soil       08/02/01 18:10       08/06/01 11:00         01AMLA29SL       P1H0140-24       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA30SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA42SL       P1H0140-26       Soil       08/02/01 18:18       08/06/01 11:00         01AMLA26SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         01AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA23SL	P1H0140-17	Soil	08/01/01 14:00	08/06/01 11:00
01AMLA34SL       P1H0140-20       Soil       08/01/01 13:30       08/06/01 11:00         01AMLA13SL       P1H0140-21       Soil       08/01/01 14:12       08/06/01 11:00         01AMLA14SL       P1H0140-22       Soil       08/01/01 14:05       08/06/01 11:00         01AMLA20SL       P1H0140-23       Soil       08/01/01 13:40       08/06/01 11:00         01AMLA29SL       P1H0140-24       Soil       08/02/01 18:10       08/06/01 11:00         01AMLA30SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA42SL       P1H0140-26       Soil       08/02/01 18:18       08/06/01 11:00         01AMLA26SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         01AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA25SL	P1H0140-18	Soil	08/01/01 13:50	08/06/01 11:00
01AMLA13SL       P1H0140-21       Soil       08/01/01 14:12       08/06/01 11:00         01AMLA14SL       P1H0140-22       Soil       08/01/01 14:05       08/06/01 11:00         01AMLA20SL       P1H0140-23       Soil       08/01/01 13:40       08/06/01 11:00         01AMLA29SL       P1H0140-24       Soil       08/02/01 18:10       08/06/01 11:00         01AMLA30SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA42SL       P1H0140-26       Soil       08/02/01 18:18       08/06/01 11:00         01AMLA26SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         01AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA33SL	P1H0140-19	Soil	08/01/01 13:20	08/06/01 11:00
01AMLA14SL       P1H0140-22       Soil       08/01/01 14:05       08/06/01 11:00         01AMLA20SL       P1H0140-23       Soil       08/01/01 13:40       08/06/01 11:00         01AMLA29SL       P1H0140-24       Soil       08/02/01 18:10       08/06/01 11:00         01AMLA30SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA42SL       P1H0140-26       Soil       08/02/01 18:18       08/06/01 11:00         01AMLA26SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         01AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA34SL	P1H0140-20	Soil	08/01/01 13:30	08/06/01 11:00
01AMLA20SL       P1H0140-23       Soil       08/01/01 13:40       08/06/01 11:00         01AMLA29SL       P1H0140-24       Soil       08/02/01 18:10       08/06/01 11:00         01AMLA30SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA42SL       P1H0140-26       Soil       08/02/01 18:18       08/06/01 11:00         01AMLA26SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         01AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA13SL	P1H0140-21	Soil	08/01/01 14:12	08/06/01 11:00
01AMLA29SL       P1H0140-24       Soil       08/02/01 18:10       08/06/01 11:00         01AMLA30SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA42SL       P1H0140-26       Soil       08/02/01 18:18       08/06/01 11:00         01AMLA26SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         01AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA14SL	P1H0140-22	Soil	08/01/01 14:05	08/06/01 11:00
01AMLA30SL       P1H0140-25       Soil       08/02/01 18:15       08/06/01 11:00         01AMLA42SL       P1H0140-26       Soil       08/02/01 18:18       08/06/01 11:00         01AMLA26SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         01AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA20SL	P1H0140-23	Soil	08/01/01 13:40	08/06/01 11:00
D1AMLA42SL       P1H0140-26       Soil       08/02/01 18:18       08/06/01 11:00         D1AMLA26SL       P1H0140-27       Soil       08/02/01 18:25       08/06/01 11:00         D1AMLA36SL       P1H0140-28       Soil       08/02/01 18:35       08/06/01 11:00	01AMLA29SL	P1H0140-24	Soil	08/02/01 18:10	08/06/01 11:00
DIAMLA26SL P1H0140-27 Soil 08/02/01 18:25 08/06/01 11:00 01AMLA36SL P1H0140-28 Soil 08/02/01 18:35 08/06/01 11:00	01AMLA30SL	P1H0140-25	Soil	08/02/01 18:15	08/06/01 11:00
01AMLA36SL P1H0140-28 Soil 08/02/01 18:35 08/06/01 11:00	01AMLA42SL	P1H0140-26	Soil	08/02/01 18:18	08/06/01 11:00
211277 20 301	01AMLA26SL	P1H0140-27	Soil	08/02/01 18:25	08/06/01 11:00
01AMLA31SL P1H0140-29 Soil 08/02/01 18:54 08/06/01 11:00	01AMLA36SL	P1H0140-28	Soil	08/02/01 18:35	08/06/01 11:00
	01AMLA31SL	P1H0140-29	Soil	08/02/01 18:54	08/06/01 11:00

North Creek Analytical - Portland





117' th Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425. 200 fax 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

Spokane

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Project: Amchitka

Project Number: 210901, PO# 21090

**Amended Report** 

Anchorage, AK 99502-1116

Project Manager: Steve Johnson

Issued: 11/07/01 13:03

#### ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMLA35SL	P1H0140-30	Soil	08/02/01 18:45	08/06/01 11:00
01AMLA03SL	P1H0140-31	Soil	08/01/01 14:26	08/06/01 11:00

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager/QA



Spokane

rth Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

200 fax 425.420.9210 425.

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

Fortland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090 Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

## Total Metals per EPA 6000/7000 Series Methods North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA01SL (P1H0140-01) Soil					Sampled: 07/2	29/01 Rece	ived: 08/06/	01	
Arsenic	2.92	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/09/01	1081156	
Cadmium	ND	0.500	H		11 11 0020	11	V0/U9/U1	1081120	
Chromium	11.1	0.500	11	n	IT	ti	08/10/01		
Lead	3.92	0.500	п	H	**		100/10/01	•	
Selenium	0.678	0.500	н	*	н	It	08/09/01	н	
Silver	ND	0.500	n	**	11	н	n	h	
01AMLA06SL (P1H0140-02) Soil				5	Sampled: 07/2	29/01 Rece	ived: 08/06/	01	
Arsenic	2.97	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/09/01	1081156	
Cadmium	ND	0.500	11	"	"	11	91	1061130	
Chromium	7.39	0.500	**	11	"	n	н	11	
Lead	3.85	0.500	lt .	**	u	n	11	n	
Selenium	ND	0.500	н		"	"	11	n	
Silver	ND	0.500	**	n	Ħ	11	Ħ	n	
01AMLA15SL (P1H0140-03) Soil				S	Sampled: 07/2	29/01 Rece	ived: 08/06/	01	
Arsenic	3.00	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/10/01	1081156	
Cadmium	ND	0.500	11	11	"	11	08/09/01	"	
Chromium	10.5	0.500	11	"	Ħ	n	**	11	
Lead	3.48	0.500	u u	н '	tt	11	Ħ	11	
Selenium	ND	0.500	11	n	**	•	11	**	
Silver	ND	0.500	н	11	в	n	n	н	
01AMLA10SL (P1H0140-04) Soil				S	Sampled: 07/2	9/01 Rece	ived: 08/06/	01	
Arsenic	3.80	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/10/01	1081156	
Cadmium	ND	0.500	н	11	11	"	08/09/01	"	
Chromium	11.3	0.500	n	п	11	n	11	н	
Lead	3.45	0.500	ti	*	11	11	11	н	
Selenium	ND	0.500	u	н	Ħ	n	**	н	
Silver	ND	0.500	If	н	**	tr	11	п	
		0.200							

North Creek Analytical - Portland



Seattle th Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 J200 fax 425.420.9210

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 Spokane

Portland

509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

### Total Metals per EPA 6000/7000 Series Methods North Creek Analytical - Portland

4. Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA41SL (P1H0140-05) Soil				5	Sampled: 07/2	9/01 Rece	ived: 08/06/	01	<del></del> -
Arsenic	5.43	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	11	97	n	н	#	1001130	
Chromium	18.1	0.500	11	**	#	n	**	*	
Lead	4.98	0.500	11	Ħ	51	R	11	n	
Selenium	ND	0.500	н	н	N	11	11	**	
Silver	ND	0.500	tt	Ħ	n	n	11	11	
01AMLA24SL (P1H0140-06) Soil				S	Sampled: 07/2	9/01 Recei	ived: 08/06/	01	
Arsenic	4.14	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	"	11	#	11	100700701	1081130	
Chromium	21.0	0.500	11	11	*1	n	11	11	
Lead	6.67	0.500	II	n	**	,,	,,	19	
Selenium	ND	0.500	#	**	n	11	tt	н	
Silver	ND	0.500	11	n	п	U	"	n	
01AMLA02SL (P1H0140-07) Soil				S	Sampled: 07/3	1/01 Recei	ved: 08/06/	01	
Arsenic	4.65	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	"	"	"	11	11	"	
Chromium	19.5	0.500	17	**	H .	#1	11	n	
Lead	6.56	0.500	H	n	**	n	11	11	
Selenium	ND	0.500	11	11	**	н	11	11	
Silver	ND	0.500	11	n	n	11	n	н	
01AMLA07SL (P1H0140-08) Soil				S	ampled: 07/3	1/01 Recei	ved: 08/06/	01	
Arsenic	7.06	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	n	11	"	11	"	"	
Chromium	15.6	0.500	"	11	н	**	11	**	
Lead	5.42	0.500	H	n	II	IT	N	H	
Selenium	ND	0.500	Ħ	n	n	n	11	n	
Silver	ND	0.500	11	ly .	tr .	**	н	н	

North Creek Analytical - Portland



117' th Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425. 200 fax 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 Seattle 117

Spokane

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

# Total Metals per EPA 6000/7000 Series Methods

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA16SL (P1H0140-09) Soil					Sampled: 07/3	1/01 Rece	ived: 08/06/	01	
Arsenic	3.79	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	11	"	H.	11	11	"	
Chromium	13.8	0.500	**	"	Ħ	11	н	Ħ	
Lead	4.78	0.500	P	"	Ħ	n	u	11	
Selenium	ND	0.500	"	11	n	11	11	n	
Silver	ND	0.500	'n	11	u	**	H	Ħ	
01AMLA18SL (P1H0140-10) Soil					Sampled: 07/3	1/01 Rece	ived: 08/06/0	01	
Arsenic	4.52	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	11	**	Ħ	11	11	0	
Chromium	12.7	0.500	t!	n	Ħ	"	11	н	
Lead	5.09	0.500	ır	11	11	n	11	н	
Selenium	ND	0.500	11	11	**	n	n	н	
Silver	ND	0.500	11	n	II	#	н	н	
01AMLA19SL (P1H0140-11) Soil					Sampled: 07/3	1/01 Rece	ived: 08/06/0	01	
Arsenic	5.38	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	"	11	rr .	"	11	н	
Chromium	14.0	0.500	**	11	**	"	ŧr	н	
Lead	4.98	0.500	**	11	**	**	1R	91	
Selenium	ND	0.500	**	11	21	11	11	91	
Silver	ND	0.500	11	11	**	11	11	n	
01AMLA08SL (P1H0140-12) Soil				;	Sampled: 07/3	1/01 Rece	ived: 08/06/	01	
Arsenic	3.46	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/10/01	1081156	
Cadmium	ND	0.500	"	H	"	17	08/08/01	"	
Chromium	13.0	0.500	**	Ħ	15	Ħ	08/08/01	H	
Lead	4.78	0.500	11	Ħ	ıı	11	08/10/01	11	
Selenium	ND	0.500	**	11	11	n	08/08/01	n	
Silver	ND	0.500	•	n	"	н	11	n	

North Creek Analytical - Portland



Seattle 117.

117. th Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.3200 fax 425.420.9210

Spokane

425.420.3210 1ax 425.420.9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588 Portland

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

# Total Metals per EPA 6000/7000 Series Methods

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
D1AMLA11SL (P1H0140-13) Soil				S	Sampled: 07/3	1/01 Rece	ived: 08/06/	01	
Arsenic	4.60	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	""	11	BI A 0020	11	00/06/01 n	1081136	
Chromium	11.7	0.500	**	u	*1	"	1(	"	
Lead	4.48	0.500	**	H	**	n	15	ır	
Selenium	ND	0.500	#	#1	**	"	н	**	
Silver	ND	0.500	tr	ŧI	н	n	11	11	
01AMLA12SL (P1H0140-14) Soil				S	Sampled: 07/3	1/01 Rece	ived: 08/06/	01	
Arsenic	3.96	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	11	11	11	11	#	1081130	
Chromium	14.3	0.500	11	11	11	11	11	11	
Lead	4.33	0.500	и	**	R	n	11	18	
Selenium	ND	0.500	Ħ	"	**	lt .	"	11	
Silver	ND	0.500	11	Ħ	n	11	11	11	
01AMLA17SL (P1H0140-15) Soil				S	Sampled: 07/3	1/01 Recei	ived: 08/06/	01	
Arsenic	4.27	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	"	- 11	11	#	8	"	
Chromium	12.4	0.500	11	n		n	n	**	
Lead	5.10	0.500	**	Ħ	Ħ	**	11	n	
Selenium	ND	0.500	11	"	•	u	#	11	
Silver	ND	0.500	"	н	11	tt	п	TT.	
01AMLA28SL (P1H0140-16) Soil				S	Sampled: 07/3	1/01 Recei	ved: 08/06/	01	
Arsenic	3.33	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	mg ng urj	11	11	#	100700701	1001130	
Chromium	11.9	0.500	H	11	11	Ŋ	11		
Lead	4.82	0.500	11	Ü	n	It	11	**	
Selenium	ND	0.500	H	Iţ	11	,	11		
Silver	ND	0.500	11	н	n	tr.	и	11	

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager/QA



Seattle 117' th Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.

200 fax 425.420.9210

 Spokane
 425.
 200
 tax 425.420.9210

 Spokane
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

 509.924.9290
 509.924.9290
 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

 503.906.9200
 fax 503.906.9210

 Bend
 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

 541.383.9310
 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090 Project Manager: Steve Johnson

Amended Report Issued: 11/07/01 13:03

### Total Metals per EPA 6000/7000 Series Methods North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Note
01AMLA23SL (P1H0140-17) Soil					Sampled: 08/0	01/01 Rece	ived: 08/06/	01	<del></del>
Arsenic	4.32	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	"	"	"	10/00/01	11	1081130	
Chromium	13.0	0.500	**	"	**	n	11	**	
Lead	5.31	0.500	11	11	ti	II.	Ħ	11	
Selenium	ND	0.500	"	11	**	n	tt .		
Silver	ND	0.500	**	Ħ	Ħ	m	н	н	
01AMLA25SL (P1H0140-18) Soil				S	Sampled: 08/0	1/01 Recei	ived: 08/06/0	01	
Arsenic	3.44	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	***************************************
Cadmium	ND	0.500	"	π	11	100,000	11	"	
Chromium	11.7	0.500	n	11	11	"	11	,,	
Lead	4.87	0.500	11	n	11	11	*1	n	
Selenium	ND	0.500	It	tt	11	11	*1	n	
Silver	ND	0.500	11	n	п	"	**	"	
01AMLA33SL (P1H0140-19) Soil				S	Sampled: 08/0	1/01 Recei	ved: 08/06/0	)1	
Arsenic	4.10	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	It	,	11	11	. 11	"	
Chromium	12.8	0.500	11	"	#1	**	11	11	
Lead	5.41	0.500	11	**	17	n	11	11	
Selenium	ND	0.500	11	**	11	н	11	Ħ	
Silver	ND	0.500	п	n	11	11	**	n	
01AMLA34SL (P1H0140-20) Soil				S	Sampled: 08/0	1/01 Recei	ved: 08/06/0	01	
Arsenic	4.49	0.500	mg/kg dry	1	EPA 6020	08/08/01	08/08/01	1081156	
Cadmium	ND	0.500	"	11	"	#	"	1001130	
Chromium	8.76	0.500	н	п	4	m	n	n	
Lead	4.77	0.500	н	11	u	n	n	II	
Selenium	ND	0.500	11	11	н	tt	11		
Silver	ND	0.500	11	**	п	It	11	11	

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager/QA



th Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

∠00 fax 425.420.9210

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 Spokane

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

# Total Metals per EPA 6000/7000 Series Methods

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA13SL (P1H0140-21) Soil					Sampled: 08/0	1/01 Rece	ived: 08/06/	01	
Arsenic	3.36	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115	
Cadmium	ND	0.500	n	Ħ	H	11	11	n 1001113	
Chromium	14.2	0.500	n	ıı	п	n	11	n	
Lead	4.48	0.500	11	n	11	**	n	n	
Selenium	ND	0.500	Ħ	11	11	n	11		
Silver	ND	0.500	н	r,	11	н	н	H	
01AMLA14SL (P1H0140-22) Soil				:	Sampled: 08/0	1/01 Rece	ived: 08/06/	01	
Arsenic	1.78	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115	-2
Cadmium	ND	0.500	"	11	н	11	11	"	
Chromium	5.85	0.500	**	11	n	и	,	я .	
Lead	2.06	0.500	tł .	n	n	"	n .	п	
Selenium	ND	0.500	n	Ħ	Ħ	**	11	"	
Silver	ND	0.500	11	11	11	n	¥	Ħ	
01AMLA20SL (P1H0140-23) Soil				Ç	Sampled: 08/0	1/01 Rece	ived: 08/06/	01	
Arsenic	3.36	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115	
Cadmium	ND	0.500	"	11	"	11	#	1	
Chromium	9.84	0.500	**	n	n	**	*	11	
Lead	3.42	0.500	11	n	n	11	**	н	
Selenium	ND	0.500	11	Ħ	n	11	u	н	
Silver	ND	0.500	11	17	11	11	n	н	
01AMLA29SL (P1H0140-24) Soil					Sampled: 08/02	2/01 Rece	ived: 08/06/	01	
Arsenic	2.86	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115	
Cadmium	ND	0.500	"	11	11	11	11	1001113	
Chromium	11.9	0.500	n	Ħ	11	11	u	11	
Lead	3.73	0.500	11	#	11	11	n	"	
Selenium	ND	0.500	11	Ħ	п	н	,1	11	
Silver	ND	0.500	n	H	11	н	11	H	
	ND	0.500							

North Creek Analytical - Portland





East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

#### Total Metals per EPA 6000/7000 Series Methods

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes		
01AMLA30SL (P1H0140-25) Soil					Sampled: 08/02	2/01 Recei	ived: 08/06/	01			
Arsenic	3.23	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115			
Cadmium	ND	0.500	11	11	H	n	II .	tt*			
Chromium	9.39	0.500	11	11	n	rr ·	n	lf.			
Lead	3.76	0.500	11	11	n	IT .	u	n			
Selenium	ND	0.500	n	Ħ	Ħ		"	97			
Silver	ND	0.500	Ħ	II.	n	et	Ħ	11			
01AMLA42SL (P1H0140-26) Soil				Sampled: 08/02/01 Received: 08/06/01							
Arsenic	5.63	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115			
Cadmium	ND	0.500	11	н	п	11	**	11:			
Chromium	15.9	0.500	н	11	11	**	#1	н			
Lead	4.24	0.500	11	11	**	n	**	11			
Selenium	ND	0.500	Ħ	11	n		n	11			
Silver	ND	0.500	U	**	tt	#	Ħ	n			
01AMLA26SL (P1H0140-27) Soil					Sampled: 08/02	2/01 Rece	ived: 08/06/	01			
Arsenic	4.06	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115			
Cadmium	ND	0.500	"	11	11	11	91	Ħ			
Chromium	10.6	0.500	N .	H	n	11	91	н			
Lead	4.00	0.500	11	**	11		Ħ	n			
Selenium	ND	0.500	II .	"	11	Ti-	н	n			
Silver	ND	0.500	Ħ	11	#	u	n	H			
01AMLA36SL (P1H0140-28) Soil				;	Sampled: 08/02	2/01 Rece	ived: 08/06/	01			
Arsenic	1.39	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115			
Cadmium	ND	0.500	"	n	#	"	11	n .			
Chromium	4.21	0.500	11	11	п	н	tt .	rr			
Lead	1.47	0.500	11	n	H	,,	H.	"			
Selenium	ND	0.500	11	It	11*	"		rt .			
Silver	ND	0.500	n	n	11	n	11	H			

North Creek Analytical - Portland





Seattle 117 th Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

425.4\_\_ J200 fax 425.420.9210

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 Spokane

Portland

509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

# Total Metals per EPA 6000/7000 Series Methods

North Creek Analytical - Portland

01AMLA31SL (P1H0140-29) Soil Arsenic	3.64 ND	0.500							
Arsenic		0.500		2	Sampled: 08/0	2/01 Recei	ived: 08/06/	01	
	ND	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115	
Cadmium	ND	0.500	11	11	H	н	100/00/01	1001113	
Chromium	13.9	0.500	71	"	Ħ	n	11	11	
Lead	4.22	0.500	11	11	11	11	It	11	
Selenium	ND	0.500	71	Ħ	n	11	#	11	
Silver	ND	0.500	11	Ħ	II	и	Ħ	tı	
01AMLA35SL (P1H0140-30) Soil				S	Sampled: 08/0	2/01 Recei	ved: 08/06/	01	
Arsenic	3.37	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115	
Cadmium	ND	0.500	n	"	n	n	11	"	
Chromium	13.6	0.500	Ħ	n	n	11	11	11	
Lead	4.39	0.500	n	IT	#1	n	ŧŧ	**	
Selenium	ND	0.500	n	Ħ	Ħ	"	"	n	
Silver	ND	0.500	11	IJ	11	II.	π	H	
01AMLA03SL (P1H0140-31) Soil				S	Sampled: 08/0	1/01 Recei	ved: 08/06/	01	
Arsenic	4.88	0.500	mg/kg dry	1	EPA 6020	08/07/01	08/08/01	1081115	
Cadmium	ND	0.500	11	11	Ħ	H	11	н	
Chromium	12.1	0.500	Ħ	п	Ħ	n	"	11	
Lead	4.57	0.500	Ħ	It	n	n	**	н	
Selenium	ND	0.500	11	11	11	n	11	n	
Silver	ND	0.500	II	и	ŧŧ	II.	11	n	

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager/QA



.h Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 .200 fax 425.420.9210

425.44.

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 Bend

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

#### Mercury by EPA Method 1631 North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method Pro	epared	Analyzed	Batch	Notes
01AMLA01SL (P1H0140-01) Soil					Sampled: 07/29/01	Recei	ved: 08/06/0	01	
Mercury	0.0179	0.00100	mg/kg dry	1	EPA 1631 08/	07/01	08/10/01	1081080	
01AMLA06SL (P1H0140-02) Soil					Sampled: 07/29/01	Recei	ved: 08/06/0	01	
Mercury	0.0182	0.00100	mg/kg dry	1	EPA 1631 08/	07/01	08/10/01	1081080	
01AMLA15SL (P1H0140-03) Soil					Sampled: 07/29/01	Recei	ved: 08/06/0	01	
Mercury	0.0143	0.00100	mg/kg dry	1	EPA 1631 08/	07/01	08/10/01	1081080	
01AMLA10SL (P1H0140-04) Soil					Sampled: 07/29/01	Recei	ved: 08/06/0	01	
Mercury	0.0172	0.00100	mg/kg dry	1	EPA 1631 08/	07/01	08/10/01	1081080	
01AMLA41SL (P1H0140-05) Soil					Sampled: 07/29/01	Recei	ved: 08/06/0	01	
Mercury	0.0132	0.00100	mg/kg dry	1	EPA 1631 08/	07/01	08/10/01	1081080	
01AMLA24SL (P1H0140-06) Soil					Sampled: 07/29/01	Recei	ved: 08/06/0	01	
Mercury	0.0196	0.00100	mg/kg dry	1	EPA 1631 08/	07/01	08/10/01	1081080	
01AMLA02SL (P1H0140-07) Soil					Sampled: 07/31/01	Recei	ved: 08/06/0	01	
Mercury	0.0188	0.00100	mg/kg dry	1	EPA 1631 08/	07/01	08/10/01	1081080	
01AMLA07SL (P1H0140-08) Soil					Sampled: 07/31/01	Recei	ved: 08/06/0	01	
Mercury	0.0138	0.00100	mg/kg dry	1	EPA 1631 08/	07/01	08/10/01	1081080	
01AMLA16SL (P1H0140-09) Soil					Sampled: 07/31/01	Recei	ved: 08/06/0	01	
Mercury	0.0114	0.00100	mg/kg dry	1	EPA 1631 08/	07/01	08/10/01	1081080	

North Creek Analytical - Portland





 Seattle
 1172
 h Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

 425.4...
 200 fax 425.420.9210

 Spokane
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

 509.924.9200
 fax 509.924.9290

 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

 503.906.9201
 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

### Mercury by EPA Method 1631 North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA18SL (P1H0140-10) Soil					Sampled: 07/31/	01 Rece	ived: 08/06/0	01	
Mercury	0.0150	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081080	
01AMLA19SL (P1H0140-11) Soil					Sampled: 07/31/	01 Rece	ived: 08/06/(	01	
Mercury	0.0111	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081080	
01AMLA08SL (P1H0140-12) Soil					Sampled: 07/31/	01 Rece	ived: 08/06/0	11	
Mercury	0.0177	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081080	
01AMLA11SL (P1H0140-13) Soil					Sampled: 07/31/	01 Rece	ived: 08/06/(	11	
Mercury	0.0154	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081080	
01AMLA12SL (P1H0140-14) Soil					Sampled: 07/31/	01 Rece	ived: 08/06/0	)1	
Mercury	0.0163	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081080	
01AMLA17SL (P1H0140-15) Soil					Sampled: 07/31/	01 Recei	ived: 08/06/0	)1	
Mercury	0.0174	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081080	
01AMLA28SL (P1H0140-16) Soil					Sampled: 07/31/	01 Recei	ived: 08/06/0	)1	
Mercury	0.0189	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	
01AMLA23SL (P1H0140-17) Soil					Sampled: 08/01/	01 Recei	ived: 08/06/0	)1	
Mercury	0.0222	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	
01AMLA25SL (P1H0140-18) Soil					Sampled: 08/01/	01 Recei	ived: 08/06/0	)1	
Mercury	0.0194	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc. **Environmental Laboratory Network** 

Page 12 of 25



 Seattle
 117.
 h Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

 425.4c.
 ,200 fax 425.420,9210

 Spokane
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

 509.924.9200
 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

Amended Report Issued: 11/07/01 13:03

#### Mercury by EPA Method 1631 North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA33SL (P1H0140-19) Soil					Sampled: 08/01	/01 Rece	ived: 08/06/0	 01	
Mercury	0.0213	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	
01AMLA34SL (P1H0140-20) Soil					Sampled: 08/01	/01 Recei	ived: 08/06/0	01	
Mercury	0.0137	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	· · · · · · · · · · · · · · · · · · ·
01AMLA13SL (P1H0140-21) Soil					Sampled: 08/01	/01 Recei	ived: 08/06/(	01	
Mercury	0.0179	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	
01AMLA14SL (P1H0140-22) Soil					Sampled: 08/01	/01 Recei	ived: 08/06/(	01	
Mercury	0.0204	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	
01AMLA20SL (P1H0140-23) Soil					Sampled: 08/01	/01 Recei	ved: 08/06/0	01	
Mercury	0.0161	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	
01AMLA29SL (P1H0140-24) Soil					Sampled: 08/02	:/01 Recei	ved: 08/06/0	01	
Mercury	0.0151	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	·
01AMLA30SL (P1H0140-25) Soil					Sampled: 08/02	./01 Recei	ved: 08/06/0	01	
Mercury	0.0147	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	
01AMLA42SL (P1H0140-26) Soil					Sampled: 08/02	:/01 Recei	ved: 08/06/0	)1	
Mercury	0.0116	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	
01AMLA26SL (P1H0140-27) Soil					Sampled: 08/02	:/01 Recei	ved: 08/06/0	)1	
Mercury	0.0145	0.00100	mg/kg dry	1	EPA 1631	08/07/01	08/10/01	1081081	

North Creek Analytical - Portland



Seattle 1172' ካ Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

425.4. JO fax 425.420.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

## Mercury by EPA Method 1631 North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method Prepared Analyzed Batch No
01AMLA36SL (P1H0140-28) Soil					Sampled: 08/02/01 Received: 08/06/01
Mercury	0.0142	0.00100	mg/kg dry	1	EPA 1631 08/07/01 08/10/01 1081081
01AMLA31SL (P1H0140-29) Soil					Sampled: 08/02/01 Received: 08/06/01
Mercury	0.0136	0.00100	mg/kg dry	1	EPA 1631 08/07/01 08/10/01 1081081
01AMLA35SL (P1H0140-30) Soil					Sampled: 08/02/01 Received: 08/06/01
Mercury	0.0227	0.00100	mg/kg dry	1	EPA 1631 08/07/01 08/10/01 1081081
01AMLA03SL (P1H0140-31) Soil					Sampled: 08/01/01 Received: 08/06/01
Mercury	0.0134	0.00100	mg/kg dry	1	EPA 1631 08/07/01 08/10/01 1081081

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc. Environmental Laboratory Network Page 14 of 25



Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

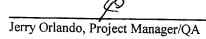
Project Number: 210901, PO# 21090 Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

## Percent Dry Weight (Solids) per Standard Methods North Creek Analytical - Portland

Analyte	Result	Reporting Limit Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA01SL (P1H0140-01) Soil				Sampled: 07/29	0/01 Rece	ived: 08/06/	 N1	
% Solids	73.0	1.00 % by Weigh	nt l	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA06SL (P1H0140-02) Soil				Sampled: 07/29	9/01 Rece	ived: 08/06/6	01	
% Solids	73.3	1.00 % by Weigl	nt 1	NCA SOP	08/08/01	08/09/01	1081126	<del></del>
01AMLA15SL (P1H0140-03) Soil				Sampled: 07/29	0/01 Rece	ived: 08/06/0	01	
% Solids	73.2	1.00 % by Weigl	nt 1	NCA SOP	08/08/01	08/09/01	1081126	<del></del>
01AMLA10SL (P1H0140-04) Soil	·			Sampled: 07/29	0/01 Rece	ived: 08/06/0	01	
% Solids	75.4	1.00 % by Weigh	it 1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA41SL (P1H0140-05) Soil				Sampled: 07/29	/01 Rece	ived: 08/06/(	01	
% Solids	80.5	1.00 % by Weigh	nt 1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA24SL (P1H0140-06) Soil				Sampled: 07/29	0/01 Recei	ived: 08/06/(	01	
% Solids	75.0	1.00 % by Weigh	it 1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA02SL (P1H0140-07) Soil				Sampled: 07/31	/01 Recei	ived: 08/06/(	01	
% Solids	77.6	1.00 % by Weigh	t 1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA07SL (P1H0140-08) Soil				Sampled: 07/31	/01 Recei	ived: 08/06/0	01	
% Solids	74.0	1.00 % by Weigh	t 1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA16SL (P1H0140-09) Soil				Sampled: 07/31	/01 Recei	ved: 08/06/0	01	
% Solids	76.2	1.00 % by Weigh	t 1	NCA SOP	08/08/01	08/09/01	1081126	

North Creek Analytical - Portland





Seattle 1172 'n Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

Spokane

425.4. ...J.0 fax 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

## Percent Dry Weight (Solids) per Standard Methods North Creek Analytical - Portland

Analyte	Result	Reporting Limit Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA18SL (P1H0140-10) Soil				Sampled: 07/31/0	)1 Rece	ived: 08/06/(	)1	
% Solids	75.1	1.00 % by Weight	1		08/08/01	08/09/01	1081126	
01AMLA19SL (P1H0140-11) Soil				Sampled: 07/31/0	)1 Rece	ived: 08/06/(	01	
% Solids	75.9	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA08SL (P1H0140-12) Soil				Sampled: 07/31/0	)1 Rece	ived: 08/06/(	01	
% Solids	74.7	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA11SL (P1H0140-13) Soil				Sampled: 07/31/0	)1 Rece	ived: 08/06/(	01	
% Solids	75.4	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA12SL (P1H0140-14) Soil				Sampled: 07/31/0	1 Rece	ived: 08/06/0	01	
% Solids	74.1	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA17SL (P1H0140-15) Soil				Sampled: 07/31/0	)1 Rece	ived: 08/06/(	01	
% Solids	75.1	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA28SL (P1H0140-16) Soil				Sampled: 07/31/0	1 Rece	ived: 08/06/0	)1	
% Solids	76.1	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA23SL (P1H0140-17) Soil				Sampled: 08/01/0	1 Rece	ived: 08/06/(	01	
% Solids	72.8	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA25SL (P1H0140-18) Soil				Sampled: 08/01/0	)1 Rece	ived: 08/06/0	01	
% Solids	75.3	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	

North Creek Analytical - Portland



h Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 200 fax 425.420.9210 Seattle

425.4.

Spokane

425.42. 200 fax 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

## Percent Dry Weight (Solids) per Standard Methods North Creek Analytical - Portland

Analyte	Result	Reporting Limit Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA33SL (P1H0140-19) Soil				Sampled: 08/01/	01 Rece	ived: 08/06/0	01	
% Solids	72.9	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA34SL (P1H0140-20) Soil				Sampled: 08/01/	01 Rece	ived: 08/06/0	01	
% Solids	76.8	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA13SL (P1H0140-21) Soil				Sampled: 08/01/	01 Rece	ived: 08/06/0	01	
% Solids	76.0	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA14SL (P1H0140-22) Soil				Sampled: 08/01/	01 Rece	ived: 08/06/0	01	
% Solids	74.0	1.00 % by Weight	1		08/08/01	08/09/01	1081126	
01AMLA20SL (P1H0140-23) Soil				Sampled: 08/01/	01 Rece	ived: 08/06/0	01	
% Solids	77.0	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA29SL (P1H0140-24) Soil				Sampled: 08/02/	01 Rece	ived: 08/06/0	01	
% Solids	76.0	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA30SL (P1H0140-25) Soil				Sampled: 08/02/	01 Rece	ived: 08/06/0	01	
% Solids	74.3	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA42SL (P1H0140-26) Soil				Sampled: 08/02/	01 Rece	ived: 08/06/0	01	
% Solids	85.6	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA26SL (P1H0140-27) Soil				Sampled: 08/02/	01 Rece	ived: 08/06/0	01	
% Solids	74.4	1.00 % by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	

North Creek Analytical - Portland





ጎ Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 J0 fax 425.420.9210 Seattle 1172

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 Spokane

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090 Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

### Percent Dry Weight (Solids) per Standard Methods North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA36SL (P1H0140-28) Soil					Sampled: 08/0	)2/01 Rece	ived: 08/06/	01	*
% Solids	74.9	1.00 %	6 by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA31SL (P1H0140-29) Soil				:	Sampled: 08/0	02/01 Rece	ived: 08/06/	01	
% Solids	76.3	1.00 %	6 by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA35SL (P1H0140-30) Soil					Sampled: 08/0	)2/01 Rece	ived: 08/06/	01	
% Solids	74.1	1.00 %	6 by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	
01AMLA03SL (P1H0140-31) Soil				;	Sampled: 08/0	01/01 Recei	ived: 08/06/0	01	
% Solids	77.1	1.00 %	6 by Weight	1	NCA SOP	08/08/01	08/09/01	1081126	

North Creek Analytical - Portland





Seattle 1172 h Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.42c....00 fax 425.420.9210 
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

# Total Metals per EPA 6000/7000 Series Methods - Quality Control

North	Creek	Analyti	cal - P	ortland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	D.D.D.	RPD	
	resure	Lime	Onns	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	1081115 - EPA 305	0

Batch 1081115 - EPA 3050										
Blank (1081115-BLK1)				Prepared:	08/07/01	Analyze	d: 08/08/01			
Arsenic	ND	0.500	mg/kg		00/07/01	7 Hidiy 20	u. 00/00/01			
Cadmium	ND	0.500	"							
Chromium	ND	0.500	n							
Lead	ND	0.500	II							
Selenium	ND	0.500	11							
Silver	ND	0.500	n							
LCS (1081115-BS1)				Prepared:	08/07/01	Analyze	d: 08/08/01			
Arsenic	9.65	0.500	mg/kg	10.0		96.5	80-120			
Cadmium	10.0	0.500	"	10.0		100	80-120			
Chromium	9.56	0.500	11	10.0		95.6	80-120			
Lead	9.55	0.500	n	10.0		95.5	80-120			
Selenium	9.69	0.500	11	10.0		96.9	80-120			
Silver	4.58	0.500	n	5.00		91.6	80-120			
Duplicate (1081115-DUP1)	Sour	ce: P1H01	40-21	Prepared:	08/07/01	Analyze	d: 08/08/01			
Arsenic	2.94	0.500	mg/kg dry	·	3.36			13.3	40	
Cadmium	ND	0.500	11		ND				40	
Chromium	8.81	0.500	**		14.2			46.8	40	Q-14
Lead	4.18	0.500	"		4,48			6.93	40	<b>V</b>
Selenium	ND	0.500	tr		ND				40	
Silver	ND	0.500	**		ND			39.9	40	
Matrix Spike (1081115-MS1)	Source	ce: P1H01	40-21	Prepared:	08/07/01	Analyzed	1: 08/08/01			
Arsenic	15.8	0.500	mg/kg dry	13.2	3.36	94.2	75-125			
Cadmium	13.2	0.500	**	13.2	ND	100	75-125			
Chromium	24.2	0.500	11	13.2	14.2	75.8	75-125			
Lead	16.6	0.500	n	13.2	4.48	91.8	75-125			
Selenium	12.9	0.500	11	13.2	ND	97.7	75-125			
Ciluar										

6.58

ND

93.9

6.24

0.500

North Creek Analytical - Portland

Silver

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

75-125

Jerry Orlando, Project Manager/QA



 Seattle
 1172
 h Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

 425.4.
 \_00 fax 425.420.9210

 Spokane
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

 509.924.9200
 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

## Total Metals per EPA 6000/7000 Series Methods - Quality Control

North	Creek	Analy	vtical -	Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	

#### Batch 1081115 - EPA 3050

Matrix Spike (1081115-MS2)	Sour	ce: P1H01	40-29	Prepared:	08/07/01	Analyze	d: 08/08/01
Arsenic	15.6	0.500	mg/kg dry		3.64	91.3	75-125
Cadmium	12.7	0.500	n	13.1	ND	96.9	75-125
Chromium	26.6	0.500	H	13.1	13.9	96.9	75-125
Lead	16.4	0.500	II .	13.1	4.22	93.0	75-125
Selenium	11.9	0.500	"	13.1	ND	89.1	75-125
Silver	5.98	0.500	"	6.55	ND	90.7	75-125

#### Batch 1081156 - EPA 3050

Blank (1081156-BLK1)				Prepared: 08/08/01	Analyze	d· 08/09/01			
Arsenic	ND	0.500	mg/kg		. 2 20	2. 00.00701			
Cadmium	ND	0.500	"						
Chromium	ND	0.500	"						
Lead	ND	0.500	n						
Selenium	ND	0.500	Ħ						
Silver	ND	0.500	IF						
LCS (1081156-BS1)				Prepared: 08/08/01	Analyze	d: 08/09/01			
Arsenic	9.76	0.500	mg/kg	10.0	97.6	80-120			
Cadmium	9.23	0.500	н	10.0	92.3	80-120			
Chromium	9.76	0.500	и	10.0	97.6	80-120			
Lead	9.54	0.500	11	10.0	95.4	80-120			
Selenium	9.88	0.500	11	10.0	98.8	80-120			
Silver	4.26	0.500	"	5.00	85.2	80-120			
<b>Duplicate (1081156-DUP1)</b>	Sour	ce: P1H01	40-01	Prepared: 08/08/01	Analyze	d: 08/09/01			
Arsenic	3,22	0.500	mg/kg dry			•	9.77	40	
Cadmium	ND	0.500	н	ND				40	
Chromium	11.4	0.500	Ħ	11.1			2.67	40	
Lead	4.29	0.500	15	3.92			9.01	40	
Selenium	0.507	0.500	п	0.678			28.9	40	

ND

0.500

North Creek Analytical - Portland

Silver

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ND

North Creek Analytical, Inc. **Environmental Laboratory Network** 

34.1

40

Page 20 of 25



Seattle 1172/ Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

425.42 JO fax 425.420.9210

Spokane East 11115 Montgomery, Suite B. Spokane, WA

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

Amended Report

Issued: 11/07/01 13:03

# Total Metals per EPA 6000/7000 Series Methods - Quality Control

<u>North</u>	Creek	Anal	ytical -	- Po	ortland

		Limit	Notes
Batch 1081156 - EPA 3050			
Matrix Spike (1081156-MS1) Source: P1H0140-01 Prepared: 08/08/01 Anal	lyzed: 08/09/01	 	<del></del>
Arsenic 14.3 0.500 mg/kg dry 13.7 2.92 83		 	
Cadmium 11.1 0.500 " 13.7 ND 81			
Chromium 24.7 0.500 " 13.7 11.1 99			
Lead 16.7 0.500 " 13.7 3.92 93			
Selenium 12.6 0.500 " 13.7 0.678 87			
Silver 5.26 0.500 " 6.85 ND 75			
Matrix Spike (1081156-MS2) Source: P1H0140-12 Prepared & Analyzed: 08.	3/08/01		
Arsenic 19.1 0.500 mg/kg dry 13.4 3.46 11		 ner - Ner	
Cadmium 15.3 0.500 " 13.4 ND 11			
Chromium 27.9 0.500 " 13.4 13.0 11			
Lead 18.7 0.500 " 13.4 4.78 10	· <del>-</del>		
Selenium 14.7 0.500 " 13.4 ND 10			
Silver 7.33 0.500 " 6.69 ND 10			

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager/QA



Seattle 1172 h Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.4

.00 fax 425.420.9210 Spokane

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090 Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

## Mercury by EPA Method 1631 - Quality Control

	Nor	th Creek	Analy	tical - Po	ortland					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1081080 - Metals										
Blank (1081080-BLK1)				Prepared:	08/07/01	Analyzed	l: 08/10/01			
Mercury	ND	0.00100	mg/kg							
LCS (1081080-BS1)				Prepared:	08/07/01	Analyzed	l: 08/10/01			
Mercury	0.00950	0.00100	mg/kg	0.0100		95.0	85-115			
<b>Duplicate (1081080-DUP1)</b>	Sou	ırce: P1H01	40-05	Frepared:	08/07/01	Analyzed	l: 08/10/01			
Mercury	0.0144	0.00100	mg/kg dry		0.0132			8.70	20	
Matrix Spike (1081080-MS1)	Sou	rce: P1H01	40-05	Prepared:	08/07/01	Analyzed	: 08/10/01			
Mercury	0.0178	0.00100	mg/kg dry	0.0124	0.0132	37.1	75-125			Q-02
Matrix Spike (1081080-MS2)	Sou	rce: P1H01	40-12	Prepared:	08/07/01	Analyzed	: 08/10/01			
Mercury	0.0174	0.00100	mg/kg dry	0.0134	0.0177	NR	75-125			Q-02
Batch 1081081 - Metals										
Blank (1081081-BLK1)				Prepared:	08/07/01	Analyzed	: 08/10/01			
Mercury	ND	0.00100	mg/kg							
LCS (1081081-BS1)				Prepared:	08/07/01	Analyzed	: 08/10/01			
Mercury	0.00960	0.00100	mg/kg	0.0100		96.0	85-115			<del></del>
Duplicate (1081081-DUP1)	Sou	rce: P1H01	40-16	Prepared:	08/07/01	Analyzed	: 08/10/01			
Mercury	0.0197	0.00100	mg/kg dry		0.0189			4.15	20	
Matrix Spike (1081081-MS1)	Sou	rce: P1H01	40-16	Prepared:	08/07/01	Analyzed	: 08/10/01			
Mercury	0.0162		mg/kg dry	0.0131	0.0189	NR	75-125			Q-02

North Creek Analytical - Portland



h Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

425.4. J0 fax 425.420.9210

 Spokane
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

 509.924.9200
 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090 Project Manager: Steve Johnson

**Amended Report** 

Issued: 11/07/01 13:03

#### Mercury by EPA Method 1631 - Quality Control

North Creek Analytical - Portland

		Reporting		Spike "	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1081081 - Metals

Matrix Spike (1081081-MS2)	Sour	ce: P1H0140-23	Prepared:	08/07/01	Analyzed	i: 08/10/01	
Mercury	0.0159	0.00100 mg/kg dry	0.0130	0.0161	NR	75-125	Q-02

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc. Environmental Laboratory Network

Page 23 of 25



th Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

425. .00 fax 425.420.9210

Spokane

Portland

425. . .00 1aX 425.420.9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1

Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090 Project Manager: Steve Johnson

**Amended Report** 

Issued: 11/07/01 13:03

## Percent Dry Weight (Solids) per Standard Methods - Quality Control

	Nort								
Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1081126 - Dry Weight									
Duplicate (1081126-DUP1)	Soui	ce: P1H0139-01	Prepared:	08/08/01	Analyzed:	08/09/01			
% Solids	92.4	1.00 % by Wei	ght	92.0	·		0.434	20	
Duplicate (1081126-DUP2)	Sour	ce: P1H0139-02	Prepared:	08/08/01	Analyzed:	08/09/01			
% Solids	92.4	1.00 % by Wei	ght	91.8			0.651	20	
Duplicate (1081126-DUP3)	Sour	ce: P1H0139-05	Prepared:	08/08/01	Analyzed:	08/09/01			
% Solids	93.1	1.00 % by Weig	ght	93.9			0.856	20	
Duplicate (1081126-DUP4)	Sour	ce: P1H0139-04	Prepared:	08/08/01	Analyzed:	08/09/01			
% Solids	95.0	1.00 % by Wei	ght	95.3	····		0.315	20	<del> </del>

North Creek Analytical - Portland



Seattle th Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

425.4 0 fax 425.420.9210

Spokane East 11113 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

Portiand 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1

Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 210901, PO# 21090

Project Manager: Steve Johnson

**Amended Report** Issued: 11/07/01 13:03

#### **Notes and Definitions**

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference. Q-02

Q-14 The Spike Recovery and/or RPD is outside of control limits due to a non-homogeneous sample matrix.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

**RPD** Relative Percent Difference

North Creek Analytical - Portland